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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,587	01/16/2004	Tsung-Chung Huang	LELI 3505	7982

321 7590 02/25/2005

SENNIGER POWERS LEAVITT AND ROEDEL
ONE METROPOLITAN SQUARE
16TH FLOOR
ST LOUIS, MO 63102

EXAMINER

LUGO, CARLOS

ART UNIT	PAPER NUMBER
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3676

DATE MAILED: 02/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/759,587

Applicant(s)

HUANG, TSUNG-CHUNG

Examiner

Carlos Lugo

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 January 2004.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-9 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

Abstract:

- Line 1; change "An easily disassembled structure for an auxiliary lock" to -
-An auxiliary lock assembly--.

Specification:

- Paragraph 0011 Line 3, change "(se Figures 2 and 3)" to --(see Figure 3)--
since figure 2 do not illustrate the protrusion 12.

Claims:

- Claim 1 Line 1, change "An easily disassembled structure of an auxiliary
lock" to -An auxiliary lock assembly-.
- Claims 2-9 Line 1, change "The easily disassembled structure of an
auxiliary lock" to -The auxiliary lock assembly-.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Reasons For Allowance

2. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowable over the prior art of record because the teachings of the references taken as a whole do not teach or render obvious the combination set forth.

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Miller (US 4,588,221) discloses an assembly comprising a housing (22) having a hole; a shaft (66) having various cross sections areas (Figure 6) and adapted to be inserted through the hole of the housing; a longitudinal groove formed on the exterior of the shaft (between each prong 68, see Figure 6); a circumferential groove formed on the exterior of the shaft being in communication with the longitudinal groove (between 78 and 90, see Figure 6); an axial hole formed on the shaft (where 72 is located in Figure 6); a knob (38) having an axle portion (at 40); and an axial hole axially formed in the knob for allowing the shaft to be inserted therein (Figure 2).

Cameron (US 2,473,937) teaches that it is well known in the art to use a screw (24) to attach the handle (10) to a shaft (14).

Young (US 2,698,763) teaches that it is well known in the art to have the combination of a housing (20) having a cover (18).

However, Miller, as modified by Cameron and Young, fails to disclose that the housing includes a protrusion radially and inwardly formed on the periphery of the housing hole so as, in combination with the longitudinal and circumferential groove of the shaft, provide the engagement of the shaft to the housing. Young only teach that the shaft (9) is engaged to a circular plate (22) by some protrusions (24) that are radially and outwardly formed in the plate, not in the periphery of the housing hole.

Hartwell (US 5,316,355) discloses an assembly comprising a housing (60) having a hole (66 and 72); a shaft (22) having various cross sections areas and adapted to

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be inserted through the hole of the housing; a longitudinal groove formed on the exterior of the shaft (between the tapered portions 58); a knob (12) having an axle portion (connected to 22); and an axial hole axially formed in the knob for allowing the shaft to be inserted therein.

However, Hartwell fails to disclose that the shaft includes a circumferential groove and that the housing includes a protrusion radially and inwardly formed on the periphery of the housing hole so as, in combination with the longitudinal and circumferential groove of the shaft, provide the engagement of the shaft to the housing. Hartwell uses a snap-fit engagement, wherein the tapered portions 58 goes into grooves 66 located in the hole of the housing, to engage the shaft to the housing.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Lugo whose telephone number is 703-305-9747. The examiner can normally be reached on 9-6pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on 703-308-2686. The fax phone

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number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-5771.

C.L.

Carlos Lugo
AU 3676

February 15, 2005.

Daniel P. Stodola

DANIEL P. STODOLA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600